

CLAIMS

1. An electrode device for microwave surgery comprising a central conductor body, a tubular insulator body which covers the central conductor body except distal end part of the central conductor body, a tubular external electrode which covers the tubular insulator body except distal end part of the tubular insulator body, and a central electrode which covers the distal end part of the central conductor body, wherein

any of the central conductor body, the tubular insulator body, the tubular external electrode and the central electrode is made of a nonmagnetic material, and a cylindrical member made of a magnetic material is fit around the distal end part of the central conductor body,

at least one projection is defined on the lateral face of the central conductor body on the distal side of the cylindrical member, and

the cylindrical member engages with the projection in the distal direction.

2. The electrode device for microwave surgery of claim 1, wherein the engagement of the cylindrical member with the projection is made by meshing, with the projection, of at least one notch defined in the cylindrical member at the distal side thereof.

3. The electrode device for microwave surgery of claim 1 or 2, wherein a pair of projections are defined on the opposite side of the lateral face of the central conductor body, and the engagement of the cylindrical member with the pair of projections is made by meshing of the pair of projections with a pair of notches defined in the cylindrical member on the distal side thereof at positions facing the projections.

4. The electrode device for microwave surgery of one of claims 1 to 3, wherein an opening is defined in the intermediate area of the lateral face of the cylindrical member.

5. The electrode device for microwave surgery of one of claims 1 to 4, wherein the cylindrical member further defines a slit extending in the longitudinal direction through the both ends thereof.

6. The electrode device for microwave surgery of one of claims 1 to 5, wherein the cylindrical member includes an overhanging portion formed by extending part of the circumference on the distal or proximal side of the

cylindrical member in the longitudinal direction.

7. The electrode device for microwave surgery of claim 1, wherein a pair of projections are defined on the opposite sides of the lateral face of the central conductor body, wherein the cylindrical member includes an overhanging portion formed by extending part of the circumference on the distal side of the cylindrical member in the longitudinal direction, the overhanging portion unrotatably engaging at each of the both lateral edges with each of the pair of projections, wherein the front edge of the cylindrical member engages at the foot of the overhanging portion with the projections in a manner where displacement of the front edge in the distal direction is prohibited.

8. The electrode device for microwave surgery of claim 7, wherein the front edge of the cylindrical member includes notches facing the pair of projections at the foot of the overhang portion, and the projections engage with the notches.

9. The electrode device for microwave surgery of one of claims 1 to 8, wherein spot welding is made between the cylindrical member and the central conductor body.

10. The electrode device for microwave surgery of one of claims 1 to 9, wherein the cylindrical member is made of stainless steel.

11. The electrode device for microwave surgery of one of claims 1 to 10, wherein the mass of the cylindrical member is 1-10 mg.